



The bioassay-guided phytochemical investigation of *Sarcococca hookeriana* with respect to cholinesterase inhibitory properties has yielded two new 5 α -pregnane-type steroidal alkaloids, hookerianamides J (**1**) and K (**2**), along with eight known compounds (**3**–**10**). The structures of **1** and **2** were elucidated by spectroscopic methods. These compounds displayed good to moderate activities in vitro against the enzymes acetylcholinesterase (IC₅₀ 8.1–48.5 μ M) and butyrylcholinesterase (IC₅₀ 0.4–4.0 μ M). Compounds **1**–**10** were also tested in vitro for their leishmanicidal activity against *Leishmania major* and for their antibacterial activities against *Bacillus subtilis*, *Micrococcus luteus*, *Streptococcus faecalis*, and *Pseudomonas pallida*.